

PR98C172

Laser sensors • Retro-reflective sensors

sensor laser, reflective, 31x25x2mm, Laser diode, red light, Point, Sn: 7000, Cable 2m, PBT+Acrylic glass

including 1x Reflector



Optical sensors function contactlessly. They detect objects independent of their characteristics (e.g., shape, color, surface structure, material). The basic operating principle is based on the transmission and reception of light. There are three different versions: 1. The through-beam sensor consists of two separate devices, a transmitter and a receiver that are aligned with one another. If the light beam between the two devices is interrupted, the switching output integrated in the receiver changes its status. 2. With the retro-reflective sensor, the transmitter and receiver are located in one device. The emitted light beam is reflected back to the receiver by a reflector that is to be mounted opposite the device. As soon as the light beam is interrupted, the switching output integrated in the device changes its status. 3. With the diffuse reflection sensor, the transmitter and receiver are in one device. The emitted light beam is reflected by the object that is to be detected. As soon as the receiver detects the reflected light, the switching output integrated in the device changes its status.

Electrical features

Display	LED display
Type of electrical connection	Cable
Short-circuit protection	No
Laser power	3mW
Line diameter	1.45mm
Switching distance	0 - 7000mm
Reverse polarity protection	No

Mechanical features

Number of cores	2
Conductor cross-section	0.1mm ²
Width	2mm
Height	31mm
Cable length	2m
Storage temperature	-20 - 70°C
Length	25mm
Active area material of sensor	acrylic glass
Housing material	PBT
Ambient temperature	-10 - 55°C

Optical features

Laser class	Class 2
Light source	Laser diode, red light
Light beam form	Point
Wavelength of the sensor	655nm

Other features

Ambient temperature	-10 - 55°C
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Classification

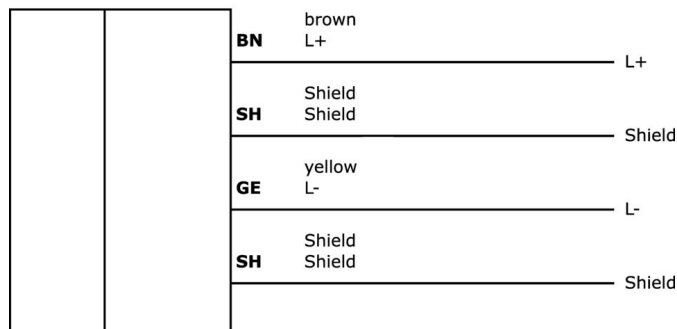
ETIM 8	EC002717 Retro-reflective sensor
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More

IPF Product Group	160 laser sensor
packaging dimensions	123 x 77 x 25 mm
gross weight	50 g
Customs tariff number	85365019
WEEE number	40951076
OzDS-compliant	Yes
POP-compliant	Yes
Reach-compliant	Yes
RoHS-compliant	Yes

Connection

Connection to amplifier



Installation



Mounting / installation may only be carried out by a qualified electrician!

Disposal



Safety warnings

Before initial operation, please make sure to follow all safety instructions that may be provided in the product information.

Never use these devices in applications where the safety of a person depends on their functionality.

For suitable connection and mounting accessories, please refer to our website www.ipf-electronic.com.